

Abstract

An ESD protection device is provided for an integrated circuit. The ESD protection device includes a power supply clamp device formed from a diode and coupled between a first power supply V_{CC} and a second power supply V_{SS} . An input protection device is also provided which is formed from a diode coupled between an input pad and the first power supply and a second diode coupled between the input pad and a second power supply. The diodes have an adjusted reverse breakdown voltage that is higher than the voltage supply V_{CC} used to power the peripheral circuitry that drives circuitry within a core of the integrated circuit. The adjusted reverse breakdown voltage is also lower than the breakdown voltage of gate oxide layers used within the peripheral circuitry.